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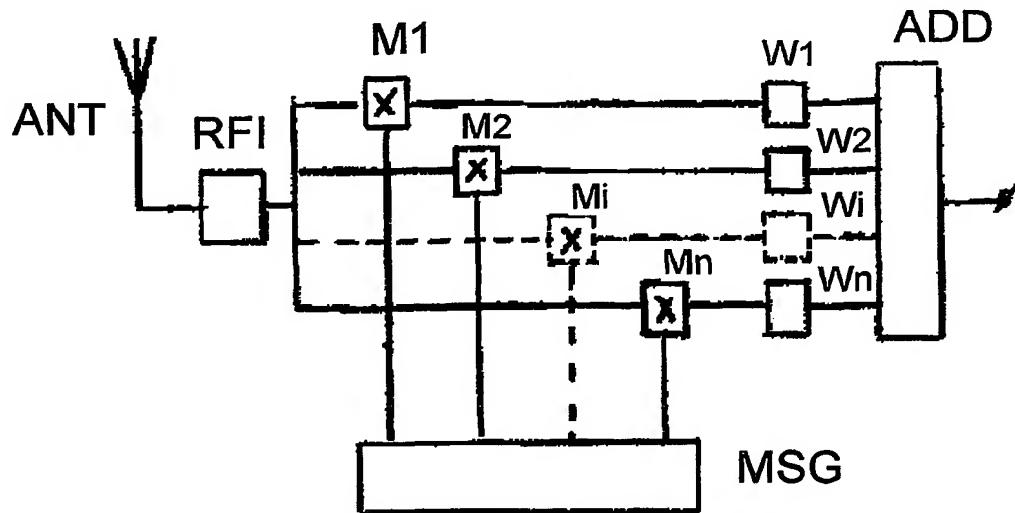
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(54) Title: MULTIPLIER DEVICE



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(57) Abstract: Multiplier device comprising first to n<sup>th</sup> multipliers M<sub>1</sub> to M<sub>n</sub> for multiplying a carrier modulated information signal with first to n<sup>th</sup> mutually phase shifted and identical, substantially square wave mixing signals MS<sub>1</sub> to MS<sub>n</sub> with 50% duty cycle. In order to eliminate fifth or higher order interferences from the output of said multiplier device according to the invention, n is greater than 2, outputs of said multipliers M<sub>1</sub> to M<sub>n</sub> are respectively coupled through weighting circuits W<sub>1</sub> to W<sub>n</sub> with respective fixed weighting factors WF<sub>1</sub> to WF<sub>n</sub> to an adder circuit, said mixing signals MS<sub>1</sub> to MS<sub>n</sub> having respective phase angles φ<sub>i</sub> corresponding to  $\phi_i = i * \Delta\phi$ , said weighting factors WF<sub>i</sub> corresponding to the sine value of said respective phase angles  $\phi_i = i * \Delta\phi$  with Δφ being the mutual phase difference between each two phase consecutive mixing signals corresponding to  $\pi/(n+1)$  and i varying from 1 to n.



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